QC ABSTRACT

NAME OF WORK: Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	6.53	4	4
9	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.52	2	2
10	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	16.86	6	6

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-01-02** **Date: 09-07-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-07-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-01-02** **Date: 09-07-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-07-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-01-02** **Date: 08-07-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 27-07-20

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-07-20
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	24-07-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	103	203	8468	31.188	3683.0	3872.6	Not less than 1800Kg/m^3
2	399	98	200	7820	31.866	4074.7		
3	401	101	200	8100	31.267	3860.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2021-03-01-02** **Date: 27-07-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	100	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	103	200	
3	404	99	199	
4	403	102	200	
5	401	100	199	
6	399	100	199	
7	403	101	200	
8	404	101	199	
9	401	102	203	
10	403	100	201	
11	403	102	203	
12	402	102	202	
13	400	102	200	
14	401	101	200	
15	402	101	202	
16	400	101	199	
17	402	102	201	
18	403	100	200	
19	403	103	201	
20	399	99	203	
Average of 20	402	101	201	

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Lab ID : CP-2021-03-01-02 Date: 27-07-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	200	202	
3	401	202	201	
4	403	203	203	
5	402	202	201	
6	400	200	201	
7	403	199	199	
8	400	203	201	
9	400	200	199	
10	400	201	199	
11	401	199	203	
12	403	202	200	
13	404	199	203	
14	400	201	202	
15	401	201	202	
16	399	200	201	
17	399	200	202	
18	400	200	203	
19	401	201	199	
20	402	200	199	
Average of 20	401	201	201	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-01-02** **Date: 20/07/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/07/2020	20/07/2020	150.17 X 151.76 X 149.12	22790	8.549	292.4	12.8	12.5
2	PCC	M15	13/07/2020	20/07/2020	149.31 X 150.96 X 149.52	22540	8.382	282.1	12.5	
3	PCC	M15	13/07/2020	20/07/2020	150.79 X 151.89 X 150.00	22903	8.117	276.8	12.1	

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/07/2020

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/07/2020	20/07/2020	150.04 X 150.92 X 150.23	22644	8.549	272.7	12.0	12.2
2	PCC	M15	13/07/2020	20/07/2020	149.29 X 150.49 X 150.17	22467	8.382	279.4	12.4	
3	PCC	M15	13/07/2020	20/07/2020	150.32 X 149.84 X 149.94	22524	8.117	270.4	12.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/08/2020

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/07/2020	12/08/2020	149.63 X 149.28 X 149.37	22336	8.608	394.0	17.6	17.7
2	PCC	M15	15/07/2020	12/08/2020	151.02 X 150.41 X 151.16	22715	8.948	403.7	17.8	
3	PCC	M15	15/07/2020	12/08/2020	151.50 X 150.30 X 150.55	22771	8.601	400.1	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/07/2020

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-20
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/07/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	18/07/2020	25/07/2020	151.48 X 149.48 X 151.80	22643	8.157	527.2	23.3	22.9
2	Footing Concrete	M25	18/07/2020	25/07/2020	151.88 X 149.78 X 149.15	22749	8.171	522.6	23.0	
3	Footing Concrete	M25	18/07/2020	25/07/2020	151.82 X 151.96 X 150.28	23072	8.374	515.2	22.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/07/2020

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-20
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/07/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	18/07/2020	25/07/2020	150.25 X 149.54 X 150.33	22469	8.157	519.8	23.1	22.7
2	Footing Concrete	M25	18/07/2020	25/07/2020	149.25 X 150.43 X 151.12	22451	8.171	514.6	22.9	
3	Footing Concrete	M25	18/07/2020	25/07/2020	149.16 X 150.37 X 149.96	22430	8.374	494.3	22.0	

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-01-02** **Date: 30/07/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-20
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	23/07/2020	30/07/2020	149.95 X 150.51 X 150.45	22569	8.157	528.7	23.4	22.8
2	Plinth Beam Concrete	M25	23/07/2020	30/07/2020	150.28 X 150.65 X 149.68	22640	8.171	518.2	22.9	
3	Plinth Beam Concrete	M25	23/07/2020	30/07/2020	149.70 X 149.63 X 151.51	22399	8.374	495.8	22.1	

* The results obtained are satisfactory as per standard requirements.

Note:
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ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಅಧಿಕೃತ ಸಹಿ
ಯಲಹಂಕ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/08/2020

Lab ID : CP-2021-03-01-02
Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name : Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency : Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-07-20
Customer ID : Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 24/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	27/07/2020	24/08/2020	150.11 X 150.90 X 150.63	22650	8.994	622.3	27.5	27.6
2	Column Concrete	M25	27/07/2020	24/08/2020	150.76 X 151.36 X 149.04	22819	8.257	605.5	26.5	
3	Column Concrete	M25	27/07/2020	24/08/2020	149.89 X 151.97 X 150.89	22778	8.702	655.9	28.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/08/2020

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-08-20
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/08/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M25	05/08/2020	12/08/2020	150.56 X 151.08 X 149.83	22747	8.157	542.9	23.9	22.7
2	Lintel Concrete	M25	05/08/2020	12/08/2020	150.65 X 149.50 X 149.92	22522	8.171	498.0	22.1	
3	Lintel Concrete	M25	05/08/2020	12/08/2020	149.91 X 151.20 X 151.55	22667	8.374	504.6	22.3	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-01-02** **Date: 19/08/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-20
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	12/08/2020	19/08/2020	149.71 X 151.68 X 150.40	22708	8.157	530.6	23.4	22.7
2	Roof Concrete	M25	12/08/2020	19/08/2020	149.64 X 149.33 X 150.97	22346	8.171	492.3	22.0	
3	Roof Concrete	M25	12/08/2020	19/08/2020	151.25 X 149.71 X 149.57	22643	8.374	511.1	22.6	

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Note:

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ಬೆಂಗಳೂರು ಉತ್ತರ ಉಪವಿಭಾಗ,
ಬಿ.ಡಿ.ಎ. ಕಾಂಪ್ಲೆಕ್ಸ್, ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/08/2020

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-20
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	12/08/2020	19/08/2020	150.78 X 150.98 X 151.08	22765	8.157	542.6	23.8	22.9
2	Roof Concrete	M25	12/08/2020	19/08/2020	149.52 X 150.18 X 150.21	22455	8.171	510.5	22.7	
3	Roof Concrete	M25	12/08/2020	19/08/2020	151.33 X 151.70 X 150.65	22957	8.374	511.4	22.3	

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TEST REPORT OF CERAMIC TILES

Lab ID	:	CP-2021-03-01-02 **Date: 03-08-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-07-20
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	28-07-20

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	300		300		6.05			

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TEST REPORT FOR PLASTER SAND

Date: 18-08-20

Lab ID	:	CP-2021-03-01-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public Toilet at NES Circle in Ward No 04 of Yelahanka Satellite Town Sub Division
Agency	:	Sri. N Lokanathreddy, No:02, 4th Cross, Vishveshvaraiah Layout, Cholanayakanahalli, Bangalore-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/85/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-20
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	14-08-20
Total weight taken	:	1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-01-02 Date: 18-08-20

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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